



Product Service

# Compliance Document

No. D 086470 0260 Rev. 01

**Holder of Attestation:** **Ginlong Technologies Co., Ltd.**

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Binhai Industrial Park, Xiangshan  
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PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter**  
**Hybrid Inverter (integrated with AFPE)****Model(s):** S6-EH3P30K-H, S6-EH3P37.5K-H, S6-EH3P40K-H,  
S6-EH3P50K-H, S6-EH3P30K-H-ND, S6-EH3P40K-H-ND,  
S6-EH3P50K-H-ND, S6-EH3P30K-H(21A), S6-EH3P37.5K-H(21A),  
S6-EH3P40K-H(21A), S6-EH3P50K-H(21A), S6-EH3P60K-H(21A),  
S6-EH3P30K-H-ND(21A), S6-EH3P40K-H-ND(21A),  
S6-EH3P60K-H-ND(21A), S6-EH3P35K-H-LV-ND(21A),  
S6-EH3P35K-H-LV(21A), S6-EH3P50K-H-ND(21A),  
S6-EH3P29.9K-H(21A), S6-EH3P29.9K-H-ND(21A),  
S6-EH3P30K-H-LV-ND(21A), S6-EH3P30K-H-LV(21A)**Parameters:** See next pages**Tested according to:** IEC 63027:2023

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the particular sample. This compliance document makes no statement regarding the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092514284-01**Date,** 2025-10-23

( Kai Zhao )



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|                                       |                                                        |                                                          |                                                        |
|---------------------------------------|--------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|
| Models                                | S6-EH3P30K-H,<br>S6-EH3P30K-H-ND                       | S6-EH3P30K-H(21A),<br>S6-EH3P30K-H-ND(21A)               | S6-EH3P35K-H-LV-ND(21A),<br>S6-EH3P35K-H-LV(21A)       |
| PV input                              |                                                        |                                                          |                                                        |
| Max. input voltage                    | 1000 Vd.c.                                             |                                                          |                                                        |
| MPPT voltage range                    | 150, ..., 850 Vd.c.                                    |                                                          |                                                        |
| Max. input current                    | 3x40 Ad.c.                                             | 3x42 Ad.c.                                               | 3x42 Ad.c.                                             |
| Isc PV (absolute maximum)             | 3x60 Ad.c.                                             | 3x60 Ad.c.                                               | 3x60 Ad.c.                                             |
| Battery input                         |                                                        |                                                          |                                                        |
| Battery type                          | Li-ion                                                 |                                                          |                                                        |
| Battery voltage range                 | 150, ..., 800 Vd.c.                                    |                                                          |                                                        |
| Max. charge current                   | 2x70 Ad.c.                                             | 2x80 Ad.c.                                               | 2x80 Ad.c.                                             |
| Max. discharge current                | 2x70 Ad.c.                                             | 2x80 Ad.c.                                               | 2x80 Ad.c.                                             |
| AC output (Back-up)                   |                                                        |                                                          |                                                        |
| Max.(rated) output power              | 30000 W                                                | 30000 W                                                  | 35000 W                                                |
| Nominal output voltage                | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Nominal frequency                     | 50/60 Hz                                               |                                                          |                                                        |
| Max.(rated) output current            | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c. @ 220/380 Va.c.<br>43.3 Aa.c. @ 230/400 Va.c. | 91.8 Aa.c.@ 127/220 Va.c.<br>87.8 Aa.c.@ 133/230 Va.c. |
| AC output (Grid side)                 |                                                        |                                                          |                                                        |
| Max.(rated) apparent output power     | 30000 VA                                               | 30000 VA                                                 | 35000 VA                                               |
| Nominal output voltage                | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Nominal frequency                     | 50/60 Hz                                               |                                                          |                                                        |
| Max.(rated) output current            | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c.   | 91.8 Aa.c.@ 127/220 Va.c.<br>87.8 Aa.c.@ 133/230 Va.c. |
| AC input (for Grid port and Gen port) |                                                        |                                                          |                                                        |
| Nominal voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Grid max.(rated) continuous current   | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c. | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c.   | 152 Aa.c.@ 127/220 Va.c.<br>152 Aa.c.@ 133/230 Va.c.   |
| Gen max.(rated) continuous current    | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c.   | 91.8 Aa.c.@ 127/220 Va.c.<br>87.8 Aa.c.@ 133/230 Va.c. |
| Nominal frequency                     | 50/60 Hz                                               |                                                          |                                                        |
| General parameters                    |                                                        |                                                          |                                                        |
| Power factor range                    | -0.8, ..., 1, ..., +0.8                                |                                                          |                                                        |
| Protective class                      | I                                                      |                                                          |                                                        |
| Ingress protection                    | IP66                                                   |                                                          |                                                        |
| Operating temperature range           | -25°C, ..., +60 °C                                     |                                                          |                                                        |
| AFCI type (PV to AC)                  | F-I-AFPE-1-4/2-2                                       | F-I-AFPE-1-4/2-2                                         | F-I-AFPE-1-4/2-2                                       |



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| Models                                       | S6-EH3P37.5K-H                                           | S6-EH3P40K-H,<br>S6-EH3P40K-H-ND                         | S6-EH3P50K-H,<br>S6-EH3P50K-H-ND                         |
|----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>PV input</b>                              |                                                          |                                                          |                                                          |
| Max. input voltage                           | 1000 Vd.c.                                               |                                                          |                                                          |
| MPPT voltage range                           | 150, ..., 850 Vd.c.                                      |                                                          |                                                          |
| Max. input current                           | 4x40 Ad.c.                                               | 4x40 Ad.c.                                               | 4x40 Ad.c.                                               |
| Isc PV (absolute maximum)                    | 4x60 Ad.c.                                               | 4x60 Ad.c.                                               | 4x60 Ad.c.                                               |
| <b>Battery input</b>                         |                                                          |                                                          |                                                          |
| Battery type                                 | Li-ion                                                   |                                                          |                                                          |
| Battery voltage range                        | 150, ..., 800 Vd.c.                                      |                                                          |                                                          |
| Max. charge current                          | 2x70 Ad.c.                                               | 2x70 Ad.c.                                               | 2x70 Ad.c.                                               |
| Max. discharge current                       | 2x70 Ad.c.                                               | 2x70 Ad.c.                                               | 2x70 Ad.c.                                               |
| <b>AC output (Back-up)</b>                   |                                                          |                                                          |                                                          |
| Max.(rated) output power                     | 37500 W                                                  | 40000 W                                                  | 50000 W                                                  |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| Max.(rated) output current                   | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| <b>AC output (Grid side)</b>                 |                                                          |                                                          |                                                          |
| Max.(rated) apparent output power            | 37500 VA                                                 | 40000 VA                                                 | 50000 VA                                                 |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| Max.(rated) output current                   | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| <b>AC input (for Grid port and Gen port)</b> |                                                          |                                                          |                                                          |
| Nominal voltage                              | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Grid max.(rated) continuous current          | 114.0 Aa.c.@ 220/380 Va.c.<br>108.2 Aa.c.@ 230/400 Va.c. | 121.6 Aa.c.@ 220/380 Va.c.<br>115.4 Aa.c.@ 230/400 Va.c. | 152.0 Aa.c.@ 220/380 Va.c.<br>144.4 Aa.c.@ 230/400 Va.c. |
| Gen max.(rated) continuous current           | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| <b>General</b>                               |                                                          |                                                          |                                                          |
| Power factor range                           | -0.8, ..., 1, ..., +0.8                                  |                                                          |                                                          |
| Protective class                             | I                                                        |                                                          |                                                          |
| Ingress protection                           | IP66                                                     |                                                          |                                                          |
| Operating temperature range                  | -25°C, ..., +60 °C                                       |                                                          |                                                          |
| AFCI type (PV to AC)                         | F-I-AFPE-1-4-2                                           | F-I-AFPE-1-4-2                                           | F-I-AFPE-1-4-2                                           |



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| Models                                       | S6-EH3P37.5K-H(21A)                                      | S6-EH3P40K-H-ND(21A),<br>S6-EH3P40K-H(21A)               | S6-EH3P50K-H-ND(21A),<br>S6-EH3P50K-H(21A)               |
|----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>PV input</b>                              |                                                          |                                                          |                                                          |
| Max. input voltage                           | 1000 Vd.c.                                               |                                                          |                                                          |
| MPPT voltage range                           | 150, ..., 850 Vd.c.                                      |                                                          |                                                          |
| Max. input current                           | 4x42 Ad.c.                                               | 4x42 Ad.c.                                               | 4x42 Ad.c.                                               |
| Isc PV (absolute maximum)                    | 4x60 Ad.c.                                               | 4x60 Ad.c.                                               | 4x60 Ad.c.                                               |
| <b>Battery input</b>                         |                                                          |                                                          |                                                          |
| Battery type                                 | Li-ion                                                   |                                                          |                                                          |
| Battery voltage range                        | 150, ..., 800 Vd.c.                                      |                                                          |                                                          |
| Max. charge current                          | 2x80 Ad.c.                                               | 2x80 Ad.c.                                               | 2x80 Ad.c.                                               |
| Max. discharge current                       | 2x80 Ad.c.                                               | 2x80 Ad.c.                                               | 2x80 Ad.c.                                               |
| <b>AC output (Back-up)</b>                   |                                                          |                                                          |                                                          |
| Max.(rated) output power                     | 37500 W                                                  | 40000 W                                                  | 50000 W                                                  |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 60 Hz                                                    | 50/60 Hz                                                 | 50/60 Hz                                                 |
| Max.(rated) output current                   | 57.0 Aa.c. @ 220/380 Va.c.<br>54.1 Aa.c. @ 230/400 Va.c. | 60.8 Aa.c. @ 220/380 Va.c.<br>57.7 Aa.c. @ 230/400 Va.c. | 76.0 Aa.c. @ 220/380 Va.c.<br>72.2 Aa.c. @ 230/400 Va.c. |
| <b>AC output (Grid side)</b>                 |                                                          |                                                          |                                                          |
| Max.(rated) apparent output power            | 37500 VA                                                 | 40000 VA                                                 | 50000 VA                                                 |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 60 Hz                                                    | 50/60 Hz                                                 | 50/60 Hz                                                 |
| Max.(rated) output current                   | 57 Aa.c. @ 220/380 Va.c.<br>54.1 Aa.c. @ 230/400 Va.c.   | 60.8 Aa.c. @ 220/380 Va.c.<br>57.7 Aa.c. @ 230/400 Va.c. | 76.0 Aa.c. @ 220/380 Va.c.<br>72.2 Aa.c. @ 230/400 Va.c. |
| <b>AC input (for Grid port and Gen port)</b> |                                                          |                                                          |                                                          |
| Nominal voltage                              | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Grid max.(rated) continuous current          | 114 Aa.c.@ 220/380 Va.c.<br>108.2 Aa.c.@ 230/400 Va.c.   | 121.6 Aa.c.@ 220/380 Va.c.<br>115.4 Aa.c.@ 230/400 Va.c. | 152 Aa.c.@ 220/380 Va.c.<br>144.4 Aa.c.@ 230/400 Va.c.   |
| Gen max.(rated) continuous current           | 57 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.     | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.     |
| Nominal frequency                            | 60 Hz                                                    | 50/60 Hz                                                 | 50/60 Hz                                                 |
| <b>General</b>                               |                                                          |                                                          |                                                          |
| Power factor range                           | -0.8, ..., 1, ..., +0.8                                  |                                                          |                                                          |
| Protective class                             | I                                                        |                                                          |                                                          |
| Ingress protection                           | IP66                                                     |                                                          |                                                          |
| Operating temperature range                  | -25°C, ..., +60 °C                                       |                                                          |                                                          |
| AFCI type (PV to AC)                         | F-I-AFPE-1-4-2                                           | F-I-AFPE-1-4-2                                           | F-I-AFPE-1-4-2                                           |



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|                                       |                                                        |                                                        |                                                        |
|---------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Models                                | S6-EH3P60K-H-ND(21A),<br>S6-EH3P60K-H(21A)             | S6-EH3P29.9K-H-ND(21A),<br>S6-EH3P29.9K-H(21A)         | S6-EH3P30K-H-LV-ND(21A),<br>S6-EH3P30K-H-LV(21A)       |
| PV input                              |                                                        |                                                        |                                                        |
| Max. input voltage                    | 1000 Vd.c.                                             |                                                        |                                                        |
| MPPT voltage range                    | 150, ..., 850 Vd.c.                                    |                                                        |                                                        |
| Max. input current                    | 4x42 Ad.c.                                             | 3x42 Ad.c.                                             | 3x42 Ad.c.                                             |
| Isc PV (absolute maximum)             | 4x60 Ad.c.                                             | 3x60 Ad.c.                                             | 3x60 Ad.c.                                             |
| Battery input                         |                                                        |                                                        |                                                        |
| Battery type                          | Li-ion                                                 |                                                        |                                                        |
| Battery voltage range                 | 150, ..., 800 Vd.c.                                    |                                                        |                                                        |
| Max. charge current                   | 2x84 Ad.c.                                             | 2x80 Ad.c.                                             | 2x80 Ad.c.                                             |
| Max. discharge current                | 2x84 Ad.c.                                             | 2x80 Ad.c.                                             | 2x80 Ad.c.                                             |
| AC output (Back-up)                   |                                                        |                                                        |                                                        |
| Max.(rated) output power              | 60000 W                                                | 29900 W                                                | 30000 W                                                |
| Nominal output voltage                | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Nominal frequency                     | 50/60 Hz                                               |                                                        |                                                        |
| Max.(rated) output current            | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c. | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c  | 78.7 Aa.c.@ 127/220 Va.c.<br>75.3 Aa.c.@ 133/230 Va.c. |
| AC output (Grid side)                 |                                                        |                                                        |                                                        |
| Max.(rated) apparent output power     | 60000 VA                                               | 29900 VA                                               | 30000 VA                                               |
| Nominal output voltage                | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Nominal frequency                     | 50/60 Hz                                               |                                                        |                                                        |
| Max.(rated) output current            | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c. | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c  | 78.7 Aa.c.@ 127/220 Va.c.<br>75.3 Aa.c.@ 133/230 Va.c. |
| AC input (for Grid port and Gen port) |                                                        |                                                        |                                                        |
| Nominal voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/(N)/PE 127/220 Va.c.,<br>3/(N)/PE 133/230 Va.c.      |
| Grid max.(rated) continuous current   | 152 Aa.c.@ 220/380 Va.c.<br>152 Aa.c.@ 220/380 Va.c.   | 90.8 Aa.c.@ 220/380 Va.c.<br>86.4 Aa.c.@ 230/400 Va.c. | 152 Aa.c.@ 127/220 Va.c.<br>152 Aa.c.@ 133/230 Va.c.   |
| Gen max.(rated) continuous current    | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c. | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c. | 78.7 Aa.c.@ 127/220 Va.c.<br>75.3 Aa.c.@ 133/230 Va.c. |
| Nominal frequency                     | 50/60 Hz                                               |                                                        |                                                        |
| General                               |                                                        |                                                        |                                                        |
| Power factor range                    | -0.8, ..., 1, ..., +0.8                                |                                                        |                                                        |
| Protective class                      | I                                                      |                                                        |                                                        |
| Ingress protection                    | IP66                                                   |                                                        |                                                        |
| Operating temperature range           | -25°C, ..., +60 °C                                     |                                                        |                                                        |
| AFCI type (PV to AC)                  | F-I-AFPE-1-4-2                                         | F-I-AFPE-1-4/2-2                                       | F-I-AFPE-1-4/2-2                                       |